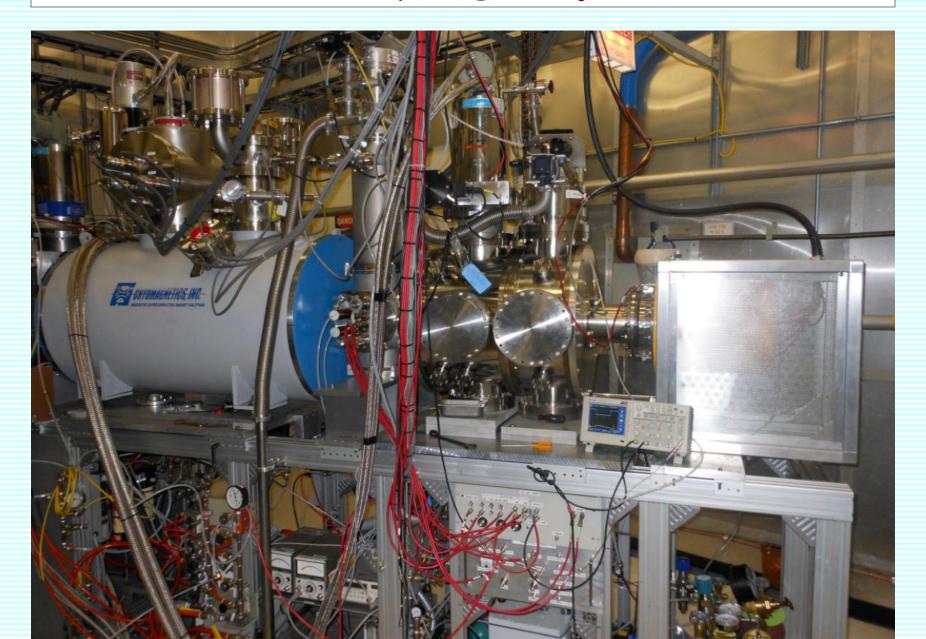
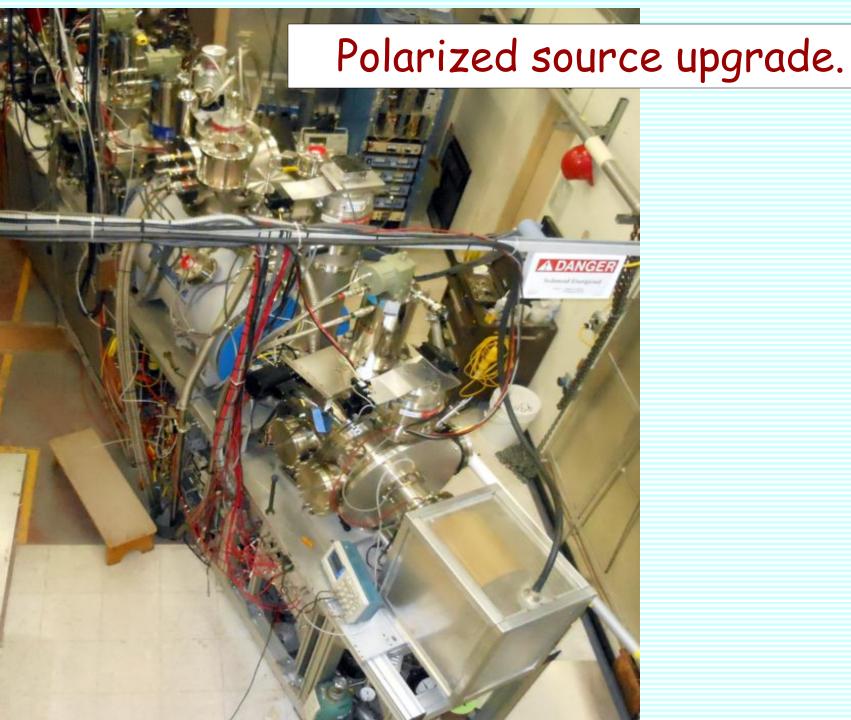
Polarized source upgrade, Febr. 26, 2013

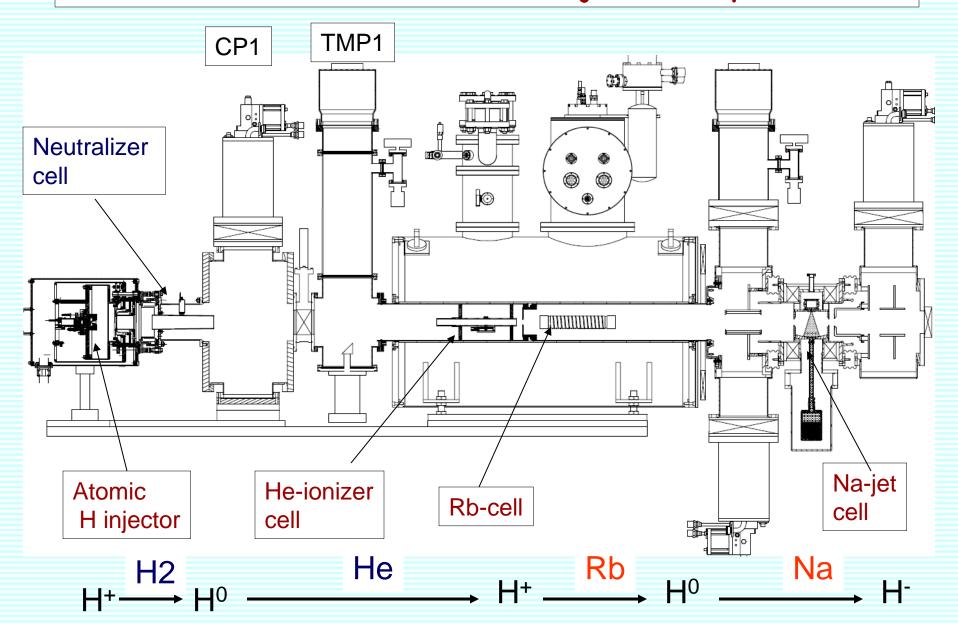


Atomic Hydrogen injector.

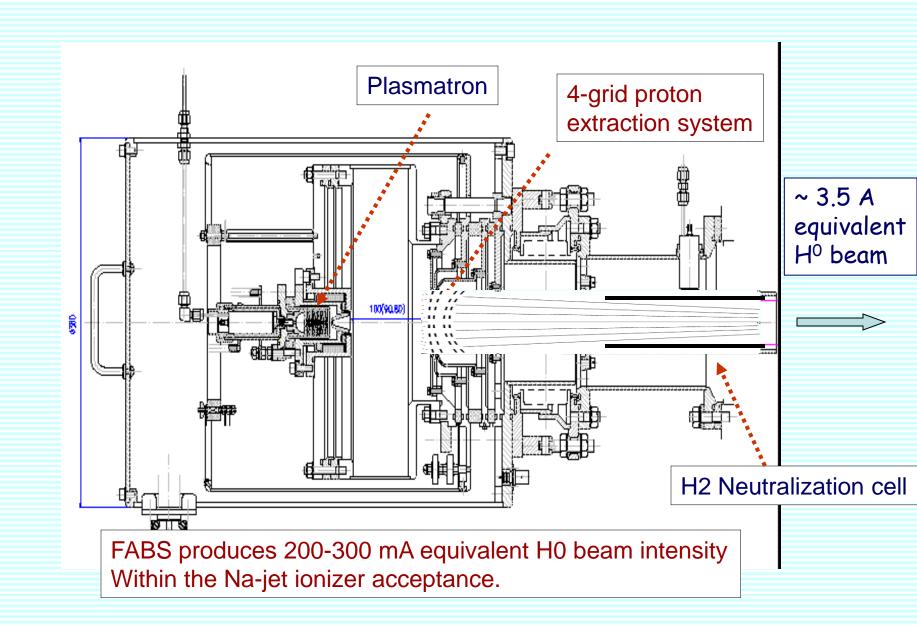




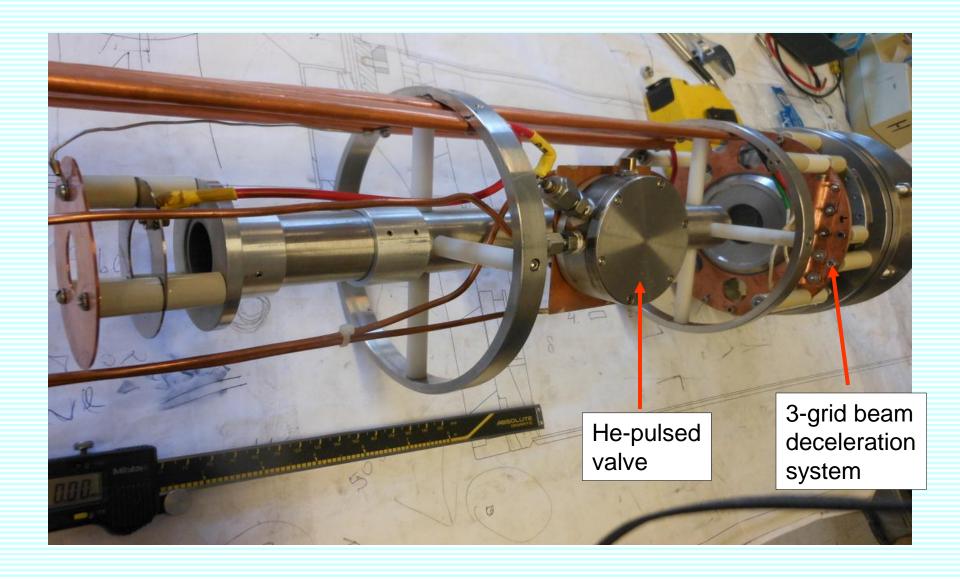
OPPIS with neutral H injector layout.



"Fast Atomic Beam Source", BINP 2011



He-ionizer cell.



Source intensity and polarization.

- Reliable long-term ·operation of the source was demonstrated.
- Very high suppression of un-polarized beam component was demonstrated.
- Small beam emittance (after collimation for energy separation) and high transmission to 200 MeV.

Rb-cell, Temp., deg C	86	91	95	100
Linac Current, µA	210	250	310	360
Booster Input ×10 ¹¹	3.5	4.0	5.6	6.5
AGS late	2.3	2.8		
Pol. %, at 200 MeV	83-84	82	80	76